

2026 Formula SAE-A Technical Inspection Sheet

ICE CLASS - INTERNAL COMBUSTION VEHICLES

University Name:		Car Number:	
Number of Drivers:		Tallest Driver Height:	
Fuel Type:		Electronic Throttle Control:	Yes: ☐ No: ☐

PRESENT THE VEHICLE FOR INSPECTION AS FOLLOWS:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Mechanical Inspection 2. ICE Class Inspection 3. Driver Egress 4. Weight | <ol style="list-style-type: none"> 5. Tilt Table Test 6. Noise Test 7. Brake Test |
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TECHNICAL INSPECTION SUMMARY (Official Use Only)

	Initial Presentation	1st Reinspection	2nd Reinspection	3rd Reinspection	Pass / Signoff
Mechanical Technical Inspection	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
ICE Class Inspection	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
Driver Egress	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
Weight	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
Tilt Table Test	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
Noise Test	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:
Brake Test	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time in: Time Out:	Time: Initials:

INSTRUCTIONS FOR SCRUTINEERS

The above table is intended to track team's progress through Technical Inspection.

Each time a team presents at a technical inspection stage, mark down the date time the inspection begins and finishes. Suggested format: Thu 14:32

Once teams have satisfactorily passed the TI Stage, sign the relevant page, and initial this summary page.

INFORMATION FOR TEAMS

IMPORTANT INFORMATION FOR TEAMS

- Please refer to the checklist provided overleaf before Registering at the event. Reference: LOCAL ADDENDUM, Rule AD 4.4
- Teams will not be permitted to commence Technical Inspection without presenting the necessary documentation and test samples as requested or reminded of at Registration.
- Teams must weigh their cars before Design Event judging, preferably after passing Technical Inspection but before the Tilt Table Inspection
- Vehicles presented to TI are to be complete and ready to run, i.e., with any liquids, lubricants and brake fluid (excluding fuel).
- If there is a conflict between this document and the rules, the rules prevail
- Any disputes are to be referred to the Chief Scrutineer, and if necessary can be forwarded to the rules protest committee for adjudication.
- This document belongs to the FSAE-A Competition, but it is the responsibility of the team to keep it and present it at each stage of inspection. Once the team has passed all stages of inspection and are cleared for dynamic events, they must provide this completed document to the Competition Administration.

2026 Formula SAE-A Technical Inspection Sheet

MECHANICAL INSPECTION (ALL CLASSES)

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL			Inspection #			
Teams are required to have an Electrical Safety Officer.			Initial ins.	1st reins.	2nd reins.	3rd reins.
MI.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area				

INERT VEHICLE (EV & AV CLASSES ONLY)			Inspection #			
The Vehicle must be in a condition which prevents unexpected energization of the HV electrical systems or movement of the tractive system For ICE Class vehicles, mark as "N/A"			Initial ins.	1st reins.	2nd reins.	3rd reins.
MI.1.2	Disable the HV Systems - Manual Service Disconnect (MSD)	Check the MSD is disconnected				
MI.1.3	Disable the HV Systems - Tractive System Master Switch (TSMS) Lock	Check the TSMS Lock is fitted and effective				
MI.1.4	(AV and Dual Purpose only) Disable the ASMS - Autonomous System Master Switch (ASMS) Lock	Check the ASMS Lock is fitted and effective				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF MSD IS CONNECTED OR THE TSMS LOCK IS MISSING						

INSTRUCTIONS FOR SCRUTINEERS

This section applies to all vehicle classes.

If an item is acceptable, initial the "Passed" column.

If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item.

Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection.

Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so.

Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events.

Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.

MECHANICAL INSPECTION

PRE-REGISTRATION				Reinspect	Passed
MI.2.1	Team completed inspection records	Teams must have self-completed the Technical Inspection Checklist and present a hardcopy	Ask for hardcopy of TI inspection sheet		
MI.2.2		Teams must provide evidence of egress times achieved by all drivers.	Ask for hardcopy record of egress times		
MI.2.3	Impact Attenuator	Teams must present a sample of their tested Impact Attenuator, or detailed photographs. (Including Standard IA if required due to Bulkhead configuration.)	Ask to see the sample impact attenuator or photos.		
TECHNICAL INSPECTION STICKER AND COMPETITION SPONSOR STICKERS				Reinspect	Passed
MI.3.1	Technical Inspection Vehicle Panel	The Technical Inspection Sticker must be installed on the top surface of the nose of the vehicle on the vehicle centerline. The Technical Inspection Sticker must be used as provided and not modified. The Technical Inspection Sticker must be clearly visible.	Visual Check		
MI.3.2	Competition Sponsor Stickers	The Competition Sponsor Sticker must be installed on the top surface of the nose of the vehicle on the vehicle centerline. The Competition Sponsor Sticker must be used as provided and not modified. The Competition Sponsor Sticker must be clearly visible.	Visual Check		

MECHANICAL INSPECTION

WHEELS & TYRES

Teams are required to bring a sample of each dry and rain tyre for use. Teams are allowed ONE SET of each type of tyre.

Teams may have different tire sizes front and rear, but left and right tires must be identical.

Teams may replace damaged tires but need to re-present to TI and demonstrate they are identical to the make size and compound listed below.

				Reinspect	Passed
MI.4.1	Dry Tyres	Inspector to record tyre make, size and compound. Make: Size: Compound: Apply tamper proof sticker to tire and wheel rim	Visual Check		
MI.4.2	Rain Tyres	Inspector to record tyre make, size and compound. Minimum tread depth of 2.4mm. Make: Size: Compound: Apply tamper proof sticker to tire and wheel rim	Visual Check		
MI.4.3	Wheels	Four wheels not in a line. 203.2 mm (8 inch) minimum diameter. A single wheel nut must have positive retainer. Check correct wheel nuts, tapered nuts, washers and spacers.	Visual Check		

MECHANICAL INSPECTION

DRIVER'S EQUIPMENT

Driver's equipment must be in good usable condition and conforming to the standards listed below

				Reinspect	Passed
MI.5.1	Helmets	Must comply with Motorsport Australia, Technical Appendix, Schedule D, 2.1 Helmet standards A and B as listed.	Visual Check		
MI.5.2	Frontal Head Restraint	Not compulsory - FIA 8858-2010, 8858-2002	Visual Check		
MI.5.3	Suits	Single piece - FIA 8856-2018, FIA 8856-2000, FIA 1986, SFi 3.2A/1 or superior SFi standard.	Visual Check		
MI.5.4	Underwear	Not compulsory - recommended. FIA 8856-2000, 8856-2018	Visual Check		
MI.5.5	Balaclava - hair cover	FIA 8856-2000, FIA 8856-2018	Visual Check		
MI.5.6	Socks	FIA 8856-2000, FIA 8856-2018	Visual Check		
MI.5.7	Shoes	FIA 8856-2000, FIA 8856-2018, SFi 3.3 or shoes with leather uppers.	Visual Check		
MI.5.8	Gloves	FIA 8856-2000, FIA 8856-2018 or leather.	Visual Check		
MI.5.9	Arm Restraints	SFi 3.3	Visual Check		

DRIVER'S COMMUNICATION

				Reinspect	Passed
MI.6.1	Interconnected to vehicle	If part of driver's equipment, then it must not be attached to driver's helmet unless fitted by helmet OEM.	Visual Check		
MI.6.2	Telemetry	If fitted, may only be used to monitor vehicle state.	Visual Check		

MECHANICAL INSPECTION

EXTERIOR GENERAL - VEHICLE ID & EQUIPMENT				Reinspect	Passed
MI.7.1	Fire extinguishers	Two hand-held, 0.9kg (2lb) minimum, dry powder, dry chemical, Must see both. One extinguisher mounted on Push Bar. Portable fire extinguishers must not be mounted to the vehicle. Dedicated On-board extinguishing systems encouraged	Visual Check		
MI.7.2	Push bar	With car, detachable, push and pull for 2 people standing behind car.	Visual Check		
MI.7.3	Jacking Point	Must have an exposed tube 30cm long, 2.5-2.9cm OD. Painted Orange. Rear wheels must come off the ground using Quick-jack (200mm lift).	Visual Check		
MI.7.4	Body and Styling	Open wheeled, open cockpit, formula styled body. Vertical keep out zones 75mm in front & behind tyres, no aero exceptions, tyres unobstructed from sides.	Visual Check		
MI.7.5	Car Numbers	Numbers must appear on front (upper surface of the nose, on centerline) and both sides. Not obscured. Min height 150mm with 25mm spacing from edges. Helvetica Bold. In Dayglo Yellow with Black background OR, White with Black Background OR Black with White Background - Round, Oval, Square or Rectangle	Visual Check		
MI.7.6	School Name and Other Decals	School name or initials, min height 50mm on both sides in Roman letters.	Visual Check		
EXTERIOR GENERAL - BODYWORK & AERODYNAMICS				Reinspect	Passed
MI.8.1	Wings	Securely mounted, should not wiggle when gently touched, especially side to side. If in question inform chief. Affix inspection sticker/s to front and /or rear wings/ aerodynamic devices.	Visual Check		
MI.8.2	Wing Edges	Horizontal leading edges min 5mm radius, vertical forward facing edges min 3mm radius. Radius must be part of structure or permanently attached.	Physical check with radius gauge		
MI.8.3	Bodywork	Minimum 38mm radius on nose, No large openings in bodywork entering into driver compartment in front of or alongside driver. 75mm clearance Front and Back of tyres viewed from above.	Physical check with radius gauge		
MI.8.4	Wheel base	Minimum 1525mm (60 inch)	Physical check with tape measure		
MI.8.5	Aerodynamics	All Aero devices, wings, undertrays, splitters, max 70cm forward of front tyres, max 250mm rearward of rear tyres. Front wings no wider than outside of front tyres. Rear wings no wider than inside of rear tyres. Under trays no wider than line between front and rear tyres. No power ground effects.	Physical Check with Gauges		
MI.8.6	Aero Vertical Height	Rear wing max 1200mm above ground (inc end plates). Front wing max 250mm above ground. No bodywork or aero higher than 500mm between axles(except centre 800mm of car, ie, cockpit panels)	Physical Check with Gauges		
MI.8.7	Cameras	If >0.25kg, must be secured by two points. No cameras mounted on helmets.	Visual Check		

MECHANICAL INSPECTION

EXTERIOR GENERAL - CHASSIS & STRUCTURAL				Reinspect	Passed
MI.9.1	Alternative frame	If alternative tube size/material, approved Structural Equivalency Sheet (SES) required. If using Alternative Frame Rules, no titanium or magnesium in primary structure.	Visual / Physical Check		
MI.9.2	Inspection holes	Inspector may use ultrasound to measure wall thickness and/or ask 4.5mm hole be drilled.	Visual / Physical Check		
MI.9.3	Main hoop	MUST BE STEEL. 1.00" OD x 0.095" wall or 25mm OD x 2.5mm wall. Must be 1 piece & extend to lowest frame member. 380mm apart (inside dim.) where attaches to bottom tubes of the Major Structure. Above Major Structure, must be within 10° of vertical. No part angled rearwards more than 10° from vertical. Smooth bends with no wrinkles. Attachment to Monocoque/Composite must be mechanically affixed.	Visual / Physical Check		
MI.9.4	Main hoop bracing	MUST BE STEEL. One brace each side, 1.00" x 0.065" or 25mm x 1.6mm minimum, attached within 16cm of top. Minimum 30 deg. included angle with hoop. If main hoop is not vertical, bracing must not be on same side of vertical as main hoop. No bends. No rod-ends. Proper construction for removable braces (capping etc.) on BOTH ENDS. Must take load back to bottom of main hoop and node of upper side-impact tube thru proper triangulated structure. If any item which is outside the envelope of the Primary structure is attached to the Main Hoop braces not at a node, additional bracing must be added to prevent bending loads in the braces in any rollover attitude. (eg.. suspension mounts, radiators or wings).	Visual / Physical Check		
MI.9.5	Bolted joints	Edge of any bolt hole located > 1.5 x hole diameter from nearest edge of the material (Primary structure joints only)	Visual / Physical Check		
MI.9.6	Shoulder harness mounting bar	1.00" OD x 0.095" wall or 25mm OD x 2.5mm wall steel or equiv. Gussets or braces if not straight to main hoop	Visual / Physical Check		
MI.9.7	Front hoop	Must be closed section metal tube. 1.00" OD x 0.095" wall or 25mm OD x 2.5mm wall steel, or equiv. Can be multi-piece. Must extend down to lowest frame member. Maximum 20 deg. to vertical. No lower than top of steering wheel. Maximum 250mm horizontal distance to steering wheel.	Visual / Physical Check		
MI.9.8	Front hoop bracing	Two forward facing braces, 1.00" OD x 0.065" or 25mm OD x 1.6mm steel or equivalent, attached within 5cm of top. Extra rearward bracing required if Front Hoop leans backwards more than 10 degrees.	Visual / Physical Check		

MECHANICAL INSPECTION

EXTERIOR GENERAL - CHASSIS & STRUCTURAL CONTINUED...				Reinspect	Passed
MI.9.9	Other side tubes	Design prevents driver's neck hitting bracing or other side tubes.	Visual Check		
MI.9.10	Side impact protection	Comprised of 3 or more tube members on each side. Must connect to main and front hoops. Lower tube to bottom of both hoops. Lower tube can be lower frame member. Upper tube must be in a zone parallel to ground between 240mm and 320mm above the lowest point of the top surface of the Lower side impact member. At least one diagonal per side must connect the upper and lower members between the main and front hoops. All tubes to be 1.0" OD x 0.065" wall or 25mm OD x 1.6mm wall steel or equivalent. If Upper Side Impact tube is multi piece or bent, must have triangulating supporting tube from the furthest part of deviation from the straight line, back to a node on the chassis and the bent tube and support must be minimum 35mm x 1.2mm;	Visual / Physical Check with gauge.		
MI.9.11	Front bulkhead	1.0" OD x 0.065" wall, or 25mm x 1.6mm wall, steel tube or equiv. No non-crushable objects forward of bulkhead.	Visual Check		
MI.9.12	Front bulkhead support	Support back to front roll hoop; minimum 3 tubes per side, all 1.00" OD x 0.049" wall steel tube or equivalent 1 bottom; 1 top within 50mm of top of bulkhead, and connecting within 4" above and 2" below upper side impact support (SIS) tube; 1 or more node-to-node diagonal to completely triangulate connections to upper and lower side impact support (SIS) tubes. (25mm x 1.5mm and 26mm x 1.2mm metric tubes OK)	Visual / Physical Check		
MI.9.13	Impact Attenuator	Impact Attenuator forward of bulkhead, 200mm long x 200mm wide x 100mm high. No wing supports through the IA. Bonded, or bolted to Plate with eight 8mm bolts plus additional support.	Visual / Physical Check		
MI.9.14	Impact Attenuator Mounting. Anti intrusion plate	All vehicles must have 1.5mm steel, 4mm Al, or approved equivalent IA anti-intrusion plate. Plate must be capable of taking transverse and vertical loads (welded or minimum eight 8mm bolts). Same size as outside dimensions of Front Bulkhead if bolted or to tube c/l if welded. If the outside profile of the Front Bulkhead is greater than 400 mm x 350 mm; or a Standard Impact Attenuator is used, requires diagonal brace unless test results provided to show Al plate deflection was less than 25 mm. The Standard IA must be attached only by bonding	Visual / Physical Check Team to present test results if required.		
MI.9.15	Monocoque / Composite	Must see laminate test specimens (2 or more) for both side impact support (SIS) and primary structure constructions. Steel backing plates (>2mm thick) used at attachment points.	Visual / Physical Check		
MI.9.16	Thermal Protection	Protection when entering or exiting vehicle, exhaust, coolant hoses or through seat or floor.	Visual Check		

MECHANICAL INSPECTION

VEHICLE CONTROLS - STEERING, SUSPENSION & BRAKES				Reinspect	Passed
MI.10.1	Ground clearance	Sufficient clearance so that no part of the car other than the tyres will contact the track surface.	Visual / Physical Check		
MI.10.2	Suspension	Fully operational with dampers front and rear; 50mm minimum wheel travel with driver in vehicle	Visual / Physical Check		
MI.10.3	Suspension pickup points	Inspected thoroughly for integrity.	Visual / Physical Check		
MI.10.4	Brakes	Dual hydraulic system & reservoirs, operating all 4 wheels, (one brake on limited slip OK). System protected by structure/shields from d/train failure & minor collisions. No plastic brake lines or brake-by-wire. No parts below chassis/tub in side view. Brake pedal (and seat) capable of 2000N (450 lbs-f) with no failures (tested only by organizers.)	Visual / Physical Check		
MI.10.5	Brake Light	One (!) RED brake light, clearly visible from the rear; on vehicles centreline; height between wheel centreline & driver's shoulders. Round, triangle, or rectangular on black background. 15cm² minimum illuminated area.	Inspect		
MI.10.6	Steering wheel	Continuous perimeter, near round (no concave sections) with driver operable quick disconnect. 25cm max from Front Hoop.	Visual / Physical Check		
MI.10.7	Steering	All steerable wheels must have positive stops to prevent linkage lock-up or tyres contacting any part of the car. 7 degrees maximum free play at the steering wheel. NO STEER-BY-WIRE on front wheels. (AVs may have an actuator on the steering, but the steering wheel must be directly mechanically attached to the wheels.) Rear steer limited to 6° total, with mechanical stops. No bonded joints in column.	Visual / Physical Check		
MI.10.8	Fasteners	Intake manifold, fuel rail, steering, braking, impact attenuator (IA), EV accumulator (battery), harness & suspension system use SAE Grade 5, Metric Grade 8.8 or higher (AN/MS) with visible positive locking mechanisms, no Loctite or lock washers. Minimum of 2 exposed threads. Rod ends in single shear are captured by a washer larger than the ball diameter. Adjustable rod ends have jam nuts to prevent loosening. No button head cap, pan head or round head screws in critical locations, e.g., cage structure or harness mount. Nylon locknuts not for use above 80 °C, i.e., near exhaust.	Visual / Physical Check		
INTERIOR - DRIVER ACCOMMODATION				Reinspect	Passed
MI.11.1	Lap belt mounting	Must pass over pelvic area at between 45-65 deg. to horizontal for upright driver, 60-80 deg. for reclined. Pivoting mounting with eye bolt or shoulder bolt attached securely to Primary Structure.	Visual / Physical Check		
MI.11.2	Driver restraint harness	SFI 16.1, SFI 16.5 or FIA specs 8853/98 or 8853/2016 5, 6 or 7 point and be labelled. 50mm wide shoulder belts OK with FHR. 50mm lap belts OK for FIA & SFI 16.5, All lap belts must have Quick Adjusters. Reclined drivers must have 6 or 7 point, and Quick Adjuster sub-belts or 2 sets of sub belts. Sub belts cannot touch frame tubes or holes in seat. SFI Belts expire 2yr from manufacture date/month; FIA 8853/98 5 years after expiry year marked on label.	Visual / Physical Check		
MI.11.3	Harness mounts	No belts can pass through a firewall. (Belts must mount on driver side of firewalls.) All belts attached securely to primary structure - 1.00" OD x 0.065" steel tube minimum. Any tabs to be 1.0" x 0.063" thick minimum. Double shear preferred. Bolt-on tabs use minimum of two 1/4" diameter Gr 5 bolts.	Visual / Physical Check		

MECHANICAL INSPECTION

INTERIOR - DRIVER ACCOMMODATION CONTINUED...				Reinspect	Passed
MI.11.4	Firewall	Fire resistant material; must separate driver (line-of-sight up to mid-height of driver's helmet) from fuel, cooling & oil systems. Wire/cable pass-throughs OK with grommets. Multiple panels OK w/ gaps sealed. No gaps at sides or bottom	Visual / Physical Check		
MI.11.5	Floor closeout panel	Required from foot area to firewall; solid, non-brittle material; multiple panels are OK if gaps less than 3mm. System Sealing: 1 or 2 drain holes min 25mm must be provided in the structure or belly pan at locations, lowest point of chassis or rearward of driver position forward of any fuel or liquids.	Visual / Physical Check		
MI.11.6	Belt attachment fasteners	Attachment bolt must be a minimum of 10mm Metric Grade 8.8 (3/8" SAE Grade 5). Applies to each belts.	Visual / Physical Check		
MI.11.7	Head restraint / head rest	Meets SFI or FIA listed materials. Min 38mm thick, min 15cm wide, min height 28cm. Max 25mm from helmet, Helmet contact point 50mm minimum from any edge. Adjustable or changeable for different drivers.	Visual / Physical Check		
MI.11.8	Roll bar padding	Meets SFI or FIA listed materials. Rollbar or bracing that could be hit by driver's helmet must be covered with 12mm thick (hard) padding. Pipe insulation and foam not permitted.	Visual / Physical Check		
MI.11.9	Vehicle controls	All controls, including shifter, must be inside cockpit. No hands, arms or elbows outside side impact system to actuate.	Visual / Physical Check		
MI.11.10	Visibility	100 deg. minimum field either side. Head rotation OK or mirrors. If mirrors, must be firmly installed and adjusted	Visual / Physical Check		
MI.11.11	Drivers' foot protection	Feet must be rearward of the Front Bulkhead and no part of shoes or legs above or outside the Major Structure in side or front views when touching pedals.	Visual / Physical Check		
MI.11.12	Drivers' leg protection	Covers inside cockpit over sharp parts or moving suspension and steering components.	Visual / Physical Check		
POWERTRAIN				Reinspect	Passed
MI.12.1	Scatter shield materials	For chains, 2.7mm minimum thick STEEL, 3 x chain width. For belts, 3mm minimum thick aluminum 6061-T6, 1.7 x belt width	Visual / Physical Check		
MI.12.2	Scatter shields general	Required for clutches, chains, belts, CVT rotating parts, etc. No holes. 6mm diameter M8.8 or 1/4" diameter Grade 5 fasteners minimum. End parallel to lowest part of front and rear sprockets	Visual / Physical Check		
MI.12.3	Catch tanks	Coolant overflow, crankcase breather & lube system vents must have separate catch tanks. 1 qt minimum each. 100°C material. Behind firewall, below shoulder level. 3mm minimum diameter vent, away from driver. PCV OK if routed to intake sys upstream of restrictor. Cannot attach breather to exhaust. Trans or diff., unless sealed, require 50 mL catch bottle.	Visual / Physical Check		

MECHANICAL INSPECTION

SPECIALISED TESTS				Reinspect	Passed
MI.13.1	Driver template position PERCY	Seat adjusted to rear most position, pedals to forward most position, Bottom circle placed in seat bottom and between centre of circle and rear most face of the pedals is no less than 915mm. This dimension must be retained. If not it must comply before Dynamic events. Loss of points for Design Score.	Visual / Physical Check		
MI.13.2	Cockpit opening	Template passes down from above cockpit to 25mm below lowest point of the top of the Side Impact Structure to less than or equal to 320mm above the lowest point inside the cockpit.. Steering wheel & column, seat & padding may be removed. No removing firewall. Fore/aft translation of template OK.	Visual / Physical Check		
MI.13.3	Cockpit Internal cross section	Pedals in most forward position. Vertically and may be moved horizontally, Template to pass from cockpit to 100mm rear of pedals. Steering wheel and padding removable with no tools & with driver in seat. Seat remains, Steering wheel can be removed.	Visual / Physical Check		

MECHANICAL INSPECTION

NOTES

INSTRUCTIONS FOR SCRUTINEERS - END OF MECHANICAL INSPECTION (ALL CLASSES)

If the team have passed all items in this section, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section.

- EV and dual purpose AV Classes, proceed with Driver Egress.
- For ICE Class, proceed with ICE Class Inspection.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready.

Teams may proceed to ICE Class Inspection or Driver Egress if it is safe for them to do so.

Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2026 Formula SAE-A Technical Inspection Sheet

ICE INSPECTION

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL				Inspection #			
				Initial ins.	1st reins.	2nd reins.	3rd reins.
II.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area					

INSTRUCTIONS FOR SCRUTINEERS

This section applies to Internal Combustion Engine (ICE) vehicles only.

If an item is acceptable, initial the "Passed" column.

If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item.

Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection.

Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so.

Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events.

Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.

ICE INSPECTION

ENGINE COMPARTMENT				Reinspect	Passed
II.1.1	Engine	Four stroke cycle piston engine, 710cc maximum swept displacement. Waste heat recovery allowed	Visual / Physical Check		
II.1.2	Compressors	Turbo or super chargers allowed if not Original Equipment Manufacturer (OEM) to engine; must be between restrictor and throttle. Carbs not allowed if compressors are used. Compressor recirculation valves ok if downstream of restrictor.	Visual / Physical Check		
II.1.3	Air intake system rollover protection	All parts of air intake system (including throttle body or carb, air intake ducting, air cleaner & air box) must be within surface defined by top of the roll bar and the outside top edge of the tyres.	Visual / Physical Check		
II.1.4	Air intake system	Any portion <350mm above ground has Side Impact protection. Supported if cantilevered (isolated to frame, rigid to engine.) No enlarged air chambers (>60mm diameter) before throttle.	Visual / Physical Check		
II.1.5	Electronic throttle controls	ETC or "drive-by-wire" only permitted with pre-approval, requires special separate inspection.	Visual / Physical Check		
II.1.6	Throttle pedal	Must have positive stop to prevent overstressing cable.	Visual / Physical Check		
II.1.7	Throttle	Minimum of 2 springs at Throttle body, each capable of closing the throttle independently. Throttle position sensor (TPS) not acceptable as a return spring. Cable must have smooth operation with no binding or sticking; minimum 50mm from any exhaust component.	Visual / Physical Check		
II.1.8	Restrictor	Must be circular; maximum diameter 20mm for gasoline and 19mm for E85. Cannot be movable.	Visual / Physical Check		
II.1.9	Intake manifold	Securely attached to block or head with brackets & mechanical fasteners w/ positive locking mechanisms. Original Equipment Manufacturer (OEM) type rubber bushings not sufficient.	Visual / Physical Check		
ENGINE COMPARTMENT				Reinspect	Passed
II.1.10	Exhaust outlet	Outlet 45cm maximum behind rear axle centreline and 60cm maximum above the ground.	Visual / Physical Check		
II.1.11	Exhaust shielding	Exhaust components outside the body forward of main hoop must be shielded from people approaching the car. No fibrous / cloth wraps around exhaust tubes	Visual / Physical Check		
II.1.12	On-board starter	Required	Visual / Physical Check		

ICE INSPECTION

FUEL SYSTEM				Reinspect	Passed
II.2.1	Fuel rail	Securely attached to block, head or int. manifold with brackets & mechanical fasteners. No plastic or composite fuel rails, except if unmodified Original Equipment Manufacturer (OEM) part	Visual / Physical Check		
II.2.2	Fuel system rollover protection	All parts of the fuel storage, supply and fuel control systems, (including fuel rail, throttle body or carburettor), must lie within a surface defined by the top of the roll bar and the outside top edge of the tyres	Visual / Physical Check		
II.2.3	Fuel tanks	Must lie within major structure of the chassis with full side impact protection & firewall between fuel supply & driver. Rigid tanks CANNOT CARRY STRUCTURAL LOAD & must be flexibly mounted. Bladders or bags in rigid container. No portion of fuel system below lower surface of frame.	Visual / Physical Check		
FUEL SYSTEM				Reinspect	Passed
II.2.4	Belly pans	Must be vented to prevent accumulation of fuel. 2 holes, each minimum of 25mm diameter	Visual / Physical Check		
II.2.5	Fuel lines	No plastic lines between f/tank & engine. Fuel injection systems use metal braided hose with threaded fittings or reinforced rubber hose & designed fuel line clamps. No worm type clips or cutting of hose. Must be securely attached and protected from rotating equipment & collision failure. High pressure fuel lines must use stainless steel tubing or smooth bore PTFE hose.	Visual / Physical Check		
II.2.6	Fuel filler neck	Minimum 35mm inner diameter, within 30° of vertical. Fuel resistant, transparent sight tube, 6mm minimum ID, min 125mm minimum vert. height visible to fueller with vehicle fully assembled, w/ non-moveable fuel level line 12.7mm to 25.4mm below top of sight tube. Sight tube must NOT run below top of tank. Clear filler neck allowed. Must prevent fuel spillage contacting driver, exhaust or ignition. Fuelled w/o manipulating car in any way. Cap secure and capable of withstanding pressurization (i.e., threads or latch)	Visual / Physical Check		
II.2.7	Fuel vents	Must exit outside of the bodywork, and have a check valve to prevent leakage if car inverted.	Visual / Physical Check		
II.2.8	Fuel type	98 octane gasoline or E85. Appropriate sticker located adjacent to fuel filler	Visual / Physical Check		

ICE INSPECTION

ELECTRICAL

Correct function of the shutdown buttons will be checked during the noise test.

Reinspect

Passed

II.3.1	Battery Master Switch	Vehicle must be fitted with a battery master shutoff switch. Rotary type, ON position with key horizontal. OFF position clearly marked. Located right side of the vehicle at approx. driver's shoulder height, just behind main roll hoop. Not attached to removable bodywork. Must be easily actuated from outside the vehicle. The master switch must disconnect the power to ALL electrical circuits including the battery, alternator, lights, fuel pump(s), ignition and electrical controls. All battery current must flow through this switch. The switch must be direct acting, not through a relay or logic. Marked with international symbol	Visual / Physical Check 		
II.3.2	Cockpit master switch	Cockpit master switch Pull-ON, Push-OFF, or Twist-Pull-ON, Push-OFF alongside & unobstructed by steering wheel, easily reached by driver. Minimum 24mm diameter. Marked with international symbol Must kill ignition & fuel pump(s).	Visual / Physical Check 		
II.3.3	Brake pedal over-travel switch	Must cut ignition & fuel pump; no re-start if released or actuated a second time. Must NOT rely on programming to work i.e. ECU/PDU configurable inputs. Not resettable by driver. Switch must activate before brake master cylinders reach full travel or before the pedal hits any positive stops. Switch must be able to actuate without damage to the switch or mounting.	Inspect If necessary, ask team to demonstrate by bleeding the brake circuit		

ICE INSPECTION

ELECTRONIC THROTTLE CHECKLIST (ETC VEHICLES ONLY)

This section must be completed for all vehicles using an Electronic Throttle Control (ETC). For all other vehicles, mark as "N/A".

Teams using ETC must bring a copy of their approval to use ETC and Systems Control Form

Reinspect

Passed

II.4.1	Throttle Body Construction	Two throttle return mechanisms (e.g. 2 springs) must be present at the throttle body. One of the sources must be a spring; the other may be a device (such as a DC motor) that normally actuates the throttle provided it returns the throttle to zero when power is removed. Throttle Position Sensor, TPS cannot be treated as a return spring. (Not mandatory if the throttle module is an Original Equipment Manufacturer production part in pristine condition and is identified on the Team's approved Notice to use ETC.)	Visual / Physical Check		
II.4.2	TPS	At least two separate TPS sensors are required with separate supply and signal lines unless supply or reference line voltage offset detection can be demonstrated.	Visual / Physical Check		
II.4.3		Each TPS must be able to be checked during Technical Inspection by having a separate detachable connector or an inline switchable break-out box.	Visual / Physical Check		
II.4.4	APPS and Throttle Pedal	Two pedal return springs must be present at the accelerator pedal. Accelerator Pedal Position Sensor, APPS cannot be treated as a return spring.	Visual / Physical Check		
II.4.5		At least two separate APPS sensors are required with separate supply and signal lines.	Visual / Physical Check		
II.4.6		Acceleration pedal must have a travel-limiting stop, to prevent over travel or damage when the pedal is strongly depressed.	Visual / Physical Check		
II.4.7	BSPD	The Brake System Plausibility Device (BSPD) Must use a standalone circuit which must not rely on programming to work i.e. ECU/PDU configurable inputs.	Visual / Physical Check If required, ask team to show BSPD Schematic.		

ICE INSPECTION

ELECTRONIC THROTTLE FUNCTION TEST

This section must be completed for all vehicles using an Electronic Throttle Control (ETC). For all other vehicles, mark as "N/A".

				Reinspect	Passed
II.5.1	Throttle Return to Zero	Remove any air cleaners or other obstructions so that the throttle valve is directly visible. Disconnect power source from throttle motor while the throttle is open. Throttle must immediately close.	Ask team to demonstrate		
II.5.2		Disconnect first TPS sensor while the throttle is open. Throttle must close. Repeat for second TPS. (Team must provide or install a way to disconnect one sensor at a time.)	Ask team to demonstrate		
II.5.3		Disconnect first APP sensor while the throttle is open. Throttle must close. Repeat for second APP. (Team must provide or install a way to disconnect one sensor at a time.)	Ask team to demonstrate		
II.5.4	Throttle Plausibility	The throttle system must monitor the position of the throttle position relative to the accelerator pedal. If the position differs by more than 10% for more than 1 second, the ignition and fuel system must be shutdown. Determine a method to cause the fuel pump to run (typically: ignition-on) and verify it is running (audibly, from computer display, etc.). Activate the fuel pump, open the throttle, insert a blocking device into the throttle valve, and command the throttle to fully close. Fuel pump and ignition must automatically become disabled due to throttle being unable to close.	Ask team to demonstrate		
II.5.5	Throttle Plausibility	The ECU must monitor the Brake System Encoder (BSE). If the BSE loses signal for more than one second, the throttle must close. "Activate the fuel pump, open the throttle, and then unplug the Brake System Encoder (BSE) from the ECU. The throttle must close due to the BSE loss of signal.	Ask team to demonstrate		

ICE INSPECTION

ELECTRONIC THROTTLE FUNCTION TEST				Reinspect	Passed
II.5.6	Brake System Plausibility Device (BSPD)	A standalone non-programmable circuit must be used on the car such that when braking hard (without locking the wheels) and when the throttle is more than 10% open for more than 1 second, the shutdown circuit must activate. The shutdown circuit must disable the ignition system and fuel pumps, and must remain deactivated until the Primary Master Switch is turned OFF and ON again. Determine a method to cause the fuel pump to run (typically: ignition-on) and verify it is running (audibly, from computer display, etc.). Activate the fuel pump, open the throttle, and hard depress the brake pedal. Fuel pump and ignition must automatically become disabled due to the throttle being open by more than 10% while hard braking, It must not be possible for the driver to reset the system.	Ask team to demonstrate		
II.5.7		Activate the fuel pump, open the throttle, and then unplug the Brake System Encoder (BSE) from the BSPD. Fuel pump and ignition must automatically become disabled due to the BSE loss of signal. It must not be possible for the driver to reset the system.	Ask team to demonstrate		
II.5.8		Activate the fuel pump, open the throttle, and then unplug the Throttle Position Sensors from the BSPD. Fuel pump and ignition must automatically become disabled due to the Throttle Position Sensor loss of signal. It must not be possible for the driver to reset the system.	Ask team to demonstrate		
II.5.9		Activate the fuel pump, open the throttle, and then unplug power to the BSPD. Fuel pump and ignition must automatically become disabled due to loss of power to the BSPD. It must not be possible for the driver to reset the system.	Ask team to demonstrate		

ICE INSPECTION

NOTES

INSTRUCTIONS FOR SCRUTINEERS - END OF ICE CLASS INSPECTION

If the team have passed all items in this section, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. The team may proceed to the next inspection station.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready.

Teams may proceed to Driver Egress if it is safe for them to do so.

Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2026 Formula SAE-A Technical Inspection Sheet

DRIVER EGRESS

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL			Inspection #			
Teams are required to have an Electrical Safety Officer.			Initial ins.	1st reins.	2nd reins.	3rd reins.
DE.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area				

INERT VEHICLE (EV & AV CLASSES ONLY)			Inspection #			
The Vehicle must be in a condition which prevents unexpected energization of the HV electrical systems or movement of the tractive system For ICE Class vehicles, mark as "N/A"			Initial ins.	1st reins.	2nd reins.	3rd reins.
DE.1.2	Disable the HV Systems - Manual Service Disconnect (MSD)	Check the MSD is disconnected				
DE.1.3	Disable the HV Systems - Tractive System Master Switch (TSMS) Lock	Check the TSMS Lock is fitted and effective				
DE.1.4	(AV and Dual Purpose only) Disable the ASMS - Autonomous System Master Switch (ASMS) Lock	Check the ASMS Lock is fitted and effective				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF MSD IS CONNECTED OR THE TSMS LOCK IS MISSING						

INSTRUCTIONS FOR SCRUTINEERS	
This section applies to Internal Combustion Engine (ICE) vehicles, Electric Vehicles (EV) and Dual Purpose vehicles (does not apply to vehicles which are AV only). If an item is acceptable, initial the "Passed" column. If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item. Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection. Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so. Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events. Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.	

MECHANICAL INSPECTION

DRIVER EGRESS

Note: Autonomous-only vehicles are exempt from the egress test.

The tallest driver must be seated in the vehicle in full race gear.

			Reinspect	Passed
DE.2.1	Driver clearance	Helmet Line - Helmet of tallest driver to be 50mm below line between top of front and main roll hoop.	Visual / Physical Check	
DE.2.2		Head Restraint - Fore & aft, 25.4mm maximum to back of helmet.	Visual / Physical Check	
DE.2.3		Head Restraint - Helmet contact point 50mm minimum from any surface	Visual / Physical Check	
DE.2.4		Forward Head Restraint (if fitted) fitted and worn correctly with helmet and shoulder straps.	Visual / Physical Check	
DE.2.5		Lap Belt - Over hip bones and tight.	Visual / Physical Check	
DE.2.6		Shoulder Belts - 10 deg. up & 20 deg. down to horizontal and tight	Visual / Physical Check	
DE.2.7		Crotch Belt/s – Tight	Visual / Physical Check	
DE.2.8		Arm Restraints - Correctly fitted	Visual / Physical Check	
DE.2.9	Egress	(TALLEST DRIVER ONLY) Fully restrained, Hands in driving position on fitted steering wheel. Less than 5 seconds to exit to side of vehicle with BOTH feet on ground from fully seated position in full safety wear. Must include actuation of Cockpit Master switch Driver's Name: Driver's License Number: Best Egress Time: Note: All drivers must attend the egress test, Scrutineers may ask any of the drivers to attempt the egress test at their discretion	Driver to demonstrate	

MECHANICAL INSPECTION

NOTES

INSTRUCTIONS FOR SCRUTINEERS - END OF DRIVER EGRESS

If the team have passed all items in this section, the mechanical inspection section and the ICE inspection (if applicable), go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. Give the team their MECHANICAL INSPECTION sticker. The team may proceed to the next inspection station.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready. Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2026 Formula SAE-A Technical Inspection Sheet

WEIGHT

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL			Inspection #			
			Initial ins.	1st reins.	2nd reins.	3rd reins.
WI.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area				

INERT VEHICLE (EV & AV CLASSES ONLY)			Inspection #			
The Vehicle must be in a condition which prevents unexpected energization of the HV electrical systems or movement of the tractive system For ICE Class vehicles, mark as "N/A"			Initial ins.	1st reins.	2nd reins.	3rd reins.
WI.1.2	Disable the HV Systems - Manual Service Disconnect (MSD)	Check the MSD is disconnected				
WI.1.3	Disable the HV Systems - Tractive System Master Switch (TSMS) Lock	Check the TSMS Lock is fitted and effective				
WI.1.4	(AV and Dual Purpose only) Disable the ASMS - Autonomous System Master Switch (ASMS) Lock	Check the ASMS Lock is fitted and effective				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF MSD IS CONNECTED OR THE TSMS LOCK IS MISSING						

INSTRUCTIONS FOR SCRUTINEERS	
This section applies to all vehicle classes. If an item is acceptable, initial the "Passed" column. If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item. Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection. Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so. Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events. Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.	

WEIGHT

WEIGHT PROCEDURE

This inspection should be completed by all teams prior to attending the Design Event.

Teams who have not completed all prior Technical Inspections may seek approval from the Chief Scrutineer and EV Technical Inspection Captain to proceed to Weight if necessary.

			Reinspect	Passed
WI.2.1	Race Ready Condition	The vehicle must be fully assembled with all fluids (including fuel) and generally in race ready condition when presented to technical inspection. EVs must have the accumulator installed.	Inspect	
WI.2.2	Vehicle Weight	Place the vehicle onto the weight scales. Record vehicle curb mass (Total race ready mass without driver, kg):	Vehicle Weight	kg

WEIGHT**NOTES****INSTRUCTIONS FOR SCRUTINEERS - END OF WEIGHT**

Once completed, write the vehicle's weight and front % with driver on the Inspection Sticker Panel, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. The team may proceed to the next inspection station.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2026 Formula SAE-A Technical Inspection Sheet

TILT

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL			Inspection #			
			Initial ins.	1st reins.	2nd reins.	3rd reins.
TL.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area				

INERT VEHICLE (EV & AV CLASSES ONLY)			Inspection #			
The Vehicle must be in a condition which prevents unexpected energization of the HV electrical systems or movement of the tractive system For ICE Class vehicles, mark as "N/A"			Initial ins.	1st reins.	2nd reins.	3rd reins.
TL.1.2	Disable the HV Systems - Manual Service Disconnect (MSD)	Check the MSD is disconnected				
TL.1.3	Disable the HV Systems - Tractive System Master Switch (TSMS) Lock	Check the TSMS Lock is fitted and effective				
TL.1.4	(AV and Dual Purpose only) Disable the ASMS - Autonomous System Master Switch (ASMS) Lock	Check the ASMS Lock is fitted and effective				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF MSD IS CONNECTED OR THE TSMS LOCK IS MISSING						

INSTRUCTIONS FOR SCRUTINEERS	
This section applies to all vehicle classes. If an item is acceptable, initial the "Passed" column. If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item. Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection. Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so. Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events. Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.	

TILT

TILT PROCEDURE

The tilt inspection is intended to check that the vehicle will not roll over or spill fluids on the track during hard manoeuvring.
The vehicle is checked by tilting in both lateral directions.

			Reinspect	Passed
TL.2.1	Setup	Place the vehicle on the tilt test table so that it will be tilted to the driver's right side. Tallest driver to be in the vehicle in full race gear and with seatbelts tight.	---	
TL.2.2	Vehicle Secure	Before proceeding with tilt test, ensure the anti-rollover strap is fitted.	Inspect	
TL.2.3	Liquid Spillage - Right	No fuel or liquid spill permitted when car is tilted to 45 degrees in the direction most likely to create spillage. The test will be conducted with the vehicle containing the maximum amount of fluids it will carry during any test or event. (ICE ONLY) Fuel tanks must be filled to their sight tube fill line	Inspect	
TL.2.4	Vehicle Stability - Right	All wheels in contact with tilt table when tilted to 60 degrees to the horizontal. The test will be conducted with the tallest driver in the normal driving position.	Inspect	
TL.2.5	Setup	Place the vehicle on the tilt test table so that it will be tilted to the driver's left side. Tallest driver to be in the vehicle in full race gear and with seatbelts tight.	---	
TL.2.6	Vehicle Secure	Before proceeding with tilt test, ensure the anti-rollover strap is fitted.	Inspect	
TL.2.7	Liquid Spillage - Left	No fuel or liquid spill permitted when car is tilted to 45 degrees in the direction most likely to create spillage. The test will be conducted with the vehicle containing the maximum amount of fluids it will carry during any test or event. (ICE ONLY) Fuel tanks must be filled to their sight tube fill line	Inspect	
TL.2.8	Liquid Spillage - Left	All wheels in contact with tilt table when tilted to 60 degrees to the horizontal. The test will be conducted with the tallest driver in the normal driving position.	Inspect	
TL.2.9	Fuel Type and Sticker (ICE ONLY)	Fuel sticker in place adjacent to F/T filler. Ensure fuel type is marked on front page of this form.	Inspect	
TL.2.10	Underside inspection	Inspect for any leakage, untidiness, wiring, cables, extended bolt threads or anything hanging that may hit or catch on the ground.	Inspect	

TILT**NOTES****INSTRUCTIONS FOR SCRUTINEERS - END OF TILT TEST**

If the team have passed all items in this section, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. Give the team their TILT sticker - the team may proceed to the next inspection station.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready. Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2024 Formula SAE-A Technical Inspection Sheet

NOISE & SHUTDOWN TEST

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL		Inspection #			
		Initial ins.	1st reins.	2nd reins.	3rd reins.
NS.1.1	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area			

INSTRUCTIONS FOR SCRUTINEERS

This section applies to Internal Combustion Engine (ICE) vehicles only.

If an item is acceptable, initial the "Passed" column.

If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item.

Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection.

Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so.

Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events.

Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.

NOISE & SHUTDOWN TEST

NOISE TEST PROCEDURE

The noise test is intended to ensure that the vehicle meets the requirements for maximum noise levels.
Driver to be in the vehicle in full race gear and with seatbelts tight.

				Reinspect	Passed
NS.2.1	Noise Level	Microphone Height level will be 0.5m from the outlet in plane parallel with the ground, at 45 degrees to the outlet. If multiple outlets, all to be checked.	Set up test		
NS.2.2		With vehicle gearbox in neutral, start the engine. Noise level must be less than 103 dBC at idle ("C" scale) Fast weighting.	Noise level		dB(c)
NS.2.3		Gearbox in neutral with engine running, noise level must be less than 110 dBC at any other engine speed, ("C" scale) Fast weighting.	Noise level		dB(c)

SHUTDOWN TEST PROCEDURE

The shutdown test is intended to check that the vehicle's shutdown buttons and master switch functions correctly.
Driver to be in the vehicle in full race gear and with seatbelts tight.

				Reinspect	Passed
NS.3.1	Primary master switch	With vehicle gearbox in neutral, start the engine. Test Primary Master Switch on drivers' right near roll bar (must kill all electrical systems, including ignition and fuel pump, engine must stop).	Team to demonstrate		
NS.3.2	Cockpit master switch	With vehicle gearbox in neutral, start the engine. Test Cockpit Master Switch alongside and unobstructed by steering wheel (must kill ignition and fuel pumps, engine must stop). Push – Pull or Push – Rotate operation.	Team to demonstrate		

NOISE & SHUTDOWN TEST

NOTES

INSTRUCTIONS FOR SCRUTINEERS - END OF NOISE & SHUTDOWN TEST

If the team have passed all items in this section, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. Give the team their NOISE sticker - the team may proceed to the next inspection station.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready. Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.

2026 Formula SAE-A Technical Inspection Sheet

BRAKE TEST

Initial Presentation Scrutineer Name:		Initial Presentation Lane Number:	
1st Reinspection Scrutineer Name:		1st Reinspection Lane Number:	
2nd Reinspection Scrutineer Name:		2nd Reinspection Lane Number:	
3rd Reinspection Scrutineer Name:		3rd Reinspection Lane Number:	

PERSONNEL			Inspection #			
Teams are required to have an Electrical Safety Officer.			Initial ins.	1st reins.	2nd reins.	3rd reins.
BT.1.1	Identify the Electrical Safety Officer (ESO)	Ask for the ESO				
BT.1.2	Only team members involved in technical inspection can be in the technical inspection bay	Ask for non-essential people to leave the area				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF THE ESO IS NOT PRESENT						

INERT VEHICLE (AV CLASSES ONLY)			Inspection #			
AV vehicles must be in a condition which prevents unexpected energization of the AV electrical systems For all other classes, mark as "N/A"			Initial ins.	1st reins.	2nd reins.	3rd reins.
BT.1.3	(AV and Dual Purpose only) Disable the ASMS - Autonomous System Master Switch (ASMS) Lock	Check the ASMS Lock is fitted and effective				
DO NOT PROCEED WITH TECHNICAL INSPECTION IF THE AMS LOCK IS MISSING						

INSTRUCTIONS FOR SCRUTINEERS

This section applies to Internal Combustion Engine (ICE) vehicles, Electric Vehicles (EV) and Dual Purpose vehicles (does not apply to vehicles which are AV only).

If an item is acceptable, initial the "Passed" column.

If an item is unacceptable, initial the "Reinspect" column and inform the team members they have not meet the requirements for that item.

Teams are allowed to take their vehicle away from technical inspection and address any issues before representing for reinspection.

Scrutineers may continue with the inspection when unacceptable items are found, provided it is safe to do so.

Teams are required to pass all items before the vehicle can proceed to the Brake Test or compete in Dynamic Events.

Scrutineers reserve the right to refuse to proceed with Technical Inspection if a sufficiently serious issue which might jeopardize the safety of the technical inspection team, event personal or any other persons is found at any time.

BRAKE TEST

PREREQUISITES				Reinspect	Passed
BT.2.1	Vehicle ready for Brake Test	The vehicle must have successfully passed all Technical Inspection Activities before attempting the Brake Test.	Check page 2 of this document and the stickers on the vehicle's nosecone		
DO NOT PROCEED WITH BRAKE TEST IF ALL PREREQUISITE INSPECTIONS ARE NOT SUCCESSFULLY PASSED					
BT.2.2	Tire Pressure	The tire pressure in all wheels must be set within the range defined in the Local Addendum: - Dry tires 6-18 PSI - Wet tires 10-24 PSI	Ask team to demonstrate		
BT.2.3	Tire Inspection	The vehicle must be fitted with the tires as-presented at mechanical inspection.	Check tires have inspection sticker		

BRAKE TEST PROCEDURE

The brake system will be dynamically tested and must demonstrate the capability of locking all four wheels when stopping the vehicle in a straight line at the end of an acceleration run specified by the brake inspectors.
Driver to be in the vehicle in full race gear and with seatbelts tight.

				Reinspect	Passed
BT.3.1	Brake Test	Start the vehicle and accelerate to speed Accelerate to speed until reaching the designated area.	Ask team to demonstrate		
BT.3.2		(EV CLASS ONLY) - Switch off the tractive system by pressing the driver cockpit shutdown button. Apply the brakes with force sufficient to demonstrate full lockup of all four wheels.	Ask team to demonstrate		
BT.3.3		All four wheels must lock up	Ask team to demonstrate		
BT.3.4		(ICE CLASS ONLY) - The engine must continue running. (EV CLASS ONLY) - The tractive system must shut down. The TSAL may take up to 5 seconds to stop flashing while the tractive system voltage reduces.	Ask team to demonstrate		
BT.3.5		Brake light must function when the driver depresses the brake pedal. Brake light must be clearly visible in bright sunlight.	Ask team to demonstrate		

**ASK THE TEAM TO TURN OFF THE VEHICLE,
(EV AND AV CLASS ONLY) ASK THE TEAM REMOVE THE HVD AND RE-LOCK TSMS LOCKOUT.**

BRAKE TEST

NOTES

INSTRUCTIONS FOR SCRUTINEERS - END OF BRAKE TEST

If the team have passed all items in this section, go to the second page of this document and initial the relevant box, noting the date and time the team passed this section. Give the team their BRAKE sticker - the ICE and EV teams may proceed to the dynamic events, AV Teams may proceed to the AV EBS Test.

If the team have items requiring reinspection (did not pass all items), go to the second page of this document and initial the relevant box noting the time and date the team was released from the inspection. The team will need to rectify the reinspection items and may return for reinspection when they are ready. Reinspection is completed on a first come, first served basis, and is dependent on Technical Inspection lane availability. Teams with Scheduled Inspections times will be given priority over teams presenting for reinspection.

Once the team have been released from the inspection, make note of the team's progress on the central inspection record board.